



Maryland HIV/AIDS Quarterly Update

Third Quarter 2017

Data reported through September 30, 2017

Center for HIV Surveillance, Epidemiology and Evaluation

Infectious Disease Prevention and Health Services Bureau

Prevention and Health Promotion Administration

Maryland Department of Health

<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>

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Section I – Background Information

HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the Maryland Department of Health by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing the Maryland Confidential Morbidity Report (DHMH 1140). Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the Maryland Department of Health to establish electronic reporting.
- Laboratory directors are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland Department of Health, by mailing the State of Maryland HIV/CD4 Laboratory Reporting Form (DHMH 4492). Laboratories are encouraged to contact the Maryland Department of Health to establish electronic reporting.

Reporting forms and instructions, including mailing addresses and phone numbers, are available on our website: <https://phpa.health.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Maryland Department of Health, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 12/31/2016. Nationally, it has been estimated that 15.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 15.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of case report data. Case report data are only available for cases receiving medical care, often only at facilities in Maryland, and only includes information that has been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department.

This epidemiological profile provides estimates of living Maryland diagnosed cases by current residence as of 12/31/2016. Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2017. Restricting address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may still be residents of Maryland but have not received any HIV care during the most recent eight and a half years. In addition, residence is dynamic and cases may have resided at multiple addresses that cannot all be represented in single time point estimates.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health at 410-767-5227.

Please note that data reported in the quarterly reports may not match data reported in the annual epidemiological profiles due to differences in reporting periods. In addition, not all data has been geocoded in the quarterly reports and therefore is preliminary. Geocoding is the process of assigning geographic identifiers to map features and data records. Addresses are standard data elements required by law and submitted as part of reporting requirements; however, the information may be incomplete which then requires a geocoding process to improve the quality of data. This process is fully completed on the end-of-the-year data set.

Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

Time Point	Biological Event	Medical Event	Surveillance Event
1	HIV Infection		
2		HIV Diagnosis	
3			HIV Report
4	AIDS Conditions		
5		AIDS Diagnosis	
6			AIDS Report
7	Death		
8		Death Diagnosis	
9			Death Report

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of

people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both newly and previously diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (a quarter-year) are used to generate the number of diagnoses during the prior years. This six-month lag allows for delays in reporting and time to complete investigations. For example, the Reported HIV Diagnoses for 4/01/2016-3/31/2017 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 4/01/2016-3/31/2017, as reported by name through 9/30/2017.

To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the Reported HIV Diagnoses each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 3/31/2017 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 9/30/2017 as reported by name through 9/30/2017.

Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ cells is less than 14%. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of VL, such as less than 200 copies per milliliter of blood, are known as viral suppression. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, current gender, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), September 30, 2017.

Population data by sex, age, and race/ethnicity are from the July 1, 2016 U.S. Census Estimates. Due to estimation limitations, some population totals may not equal the sum of its components.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Glossary of Terms

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of 9/30/2017.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of 9/30/2017.

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of 9/30/2017.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of HIV cases divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

MDH Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

English

Help is available in your language: 410-767-5227 (TTY: 1-800-735-2258). These services are available for free.

Español/Spanish

Hay ayuda disponible en su idioma: 410-767-5227 (TTY: 1-800-735-2258). Estos servicios están disponibles gratis.

中文/Chinese

用您的语言为您提供帮助: 410-767-5227 (TTY: 1-800-735-2258). 这些服务都是免费的

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Section II – Adult/Adolescent Cases by Jurisdiction

Table 1 – Adult/Adolescent HIV Diagnoses during 4/1/2016-3/31/2017, Linked to Care, Late Diagnosis, and First CD4 Test Result by Jurisdiction of Residence at HIV Diagnosis, Reported through 9/30/2017

JURISDICTION OF RESIDENCE AT HIV DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED HIV DIAGNOSES							
		No.	% of Total	Rate	Linked to Care		Late HIV Diagnoses	First CD4 Test Result	
					% 1 mo.	% 3 mo.	%	%	Median Count
Allegany	63,216	2	0.2%	3.2	***	***	***	***	***
Anne Arundel	476,307	48	4.2%	10.1	77.1%	83.3%	35.4%	85.4%	278
Baltimore City	518,161	253	22.3%	48.8	83.8%	89.7%	22.5%	87.7%	428
Baltimore	701,795	165	14.6%	23.5	86.7%	92.7%	26.1%	84.8%	359
Calvert	76,619	7	0.6%	9.1	57.1%	85.7%	***	85.7%	490
Caroline	27,333	2	0.2%	7.3	***	***	***	***	***
Carroll	142,910	3	0.3%	2.1	***	***	***	***	***
Cecil	86,182	3	0.3%	3.5	***	***	***	***	***
Charles	131,050	30	2.6%	22.9	80.0%	86.7%	33.3%	90.0%	310
Dorchester	27,280	10	0.9%	36.7	90.0%	100.0%	50.0%	70.0%	169
Frederick	206,845	17	1.5%	8.2	82.4%	94.1%	***	94.1%	409
Garrett	25,600	0	0.0%	0.0	--	--	--	--	--
Harford	211,682	23	2.0%	10.9	69.6%	82.6%	43.5%	78.3%	123
Howard	262,960	27	2.4%	10.3	85.2%	85.2%	25.9%	81.5%	224
Kent	17,439	1	0.1%	5.7	***	***	***	***	***
Montgomery	868,044	181	16.0%	20.9	79.0%	86.2%	24.9%	87.8%	356
Prince George's	757,629	300	26.5%	39.6	78.3%	85.3%	25.0%	88.0%	386
Queen Anne's	41,644	2	0.2%	4.8	***	***	***	***	***
Saint Mary's	92,866	4	0.4%	4.3	***	***	***	***	***
Somerset	22,676	6	0.5%	26.5	83.3%	100.0%	***	100.0%	502
Talbot	32,436	1	0.1%	3.1	***	***	***	***	***
Washington	126,707	6	0.5%	4.7	100.0%	100.0%	***	100.0%	288
Wicomico	86,374	14	1.2%	16.2	78.6%	92.9%	***	92.9%	419
Worcester	45,116	3	0.3%	6.6	***	***	***	***	***
Corrections	--	26	2.3%	--	73.1%	88.5%	***	88.5%	441
TOTAL	5,048,872	1,134	100.0%	22.5	81.0%	88.0%	25.4%	87.2%	374

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported HIV Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of adult/adolescent HIV diagnoses divided by the population age 13 years or older and multiplied by 100,000.

First CD4 Test Result Percent: Percent of adult/adolescent reported HIV diagnoses with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

Table 2 – Adult/Adolescent AIDS Diagnoses during 4/1/2016-3/31/2017, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction of Residence at AIDS Diagnosis, Reported through 9/30/2017

JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES				
		No.	% of Total	Rate	Mean Years from HIV Diagnosis	% Late HIV Diagnosis
Allegany	63,216	3	0.5%	4.7	***	***
Anne Arundel	476,307	26	4.3%	5.5	4.0	57.7%
Baltimore City	518,161	145	24.0%	28.0	6.4	32.4%
Baltimore	701,795	85	14.1%	12.1	4.3	57.6%
Calvert	76,619	3	0.5%	3.9	***	***
Caroline	27,333	1	0.2%	3.7	***	***
Carroll	142,910	3	0.5%	2.1	***	***
Cecil	86,182	4	0.7%	4.6	***	***
Charles	131,050	15	2.5%	11.4	5.1	53.3%
Dorchester	27,280	6	1.0%	22.0	2.2	83.3%
Frederick	206,845	4	0.7%	1.9	***	***
Garrett	25,600	0	0.0%	0.0	--	--
Harford	211,682	18	3.0%	8.5	1.5	72.2%
Howard	262,960	15	2.5%	5.7	1.7	66.7%
Kent	17,439	0	0.0%	0.0	--	--
Montgomery	868,044	78	12.9%	9.0	2.4	65.4%
Prince George's	757,629	167	27.6%	22.0	3.7	51.5%
Queen Anne's	41,644	2	0.3%	4.8	***	***
Saint Mary's	92,866	2	0.3%	2.2	***	***
Somerset	22,676	3	0.5%	13.2	***	***
Talbot	32,436	1	0.2%	3.1	***	***
Washington	126,707	5	0.8%	3.9	4.9	40.0%
Wicomico	86,374	7	1.2%	8.1	5.5	42.9%
Worcester	45,116	0	0.0%	0.0	--	--
Corrections	--	11	1.8%	--	2.1	63.6%
TOTAL	5,048,872	604	100.0%	12.0	4.2	52.2%

*** Data withheld due to low population counts and/or case counts

Adult/Adolescent Reported AIDS Diagnoses: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Rate: Number of adult/adolescent AIDS diagnoses divided by the population age 13 years or older and multiplied by 100,000.

Mean Years from HIV Diagnosis: Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

Table 3 – Adult/Adolescent HIV Cases Alive on 3/31/2017, by Jurisdiction of Residence at Diagnosis, Reported through 9/30/2017

JURISDICTION OF RESIDENCE AT DIAGNOSIS	POPULATION AGE 13+	ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS			ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS			ADULT/ADOLESCENT TOTAL LIVING HIV CASES			
		No.	% of Total	Rate	No.	% of Total	Rate	No.	% of Total	Rate	Ratio (1 in X)
Allegany	63,216	39	0.3%	61.7	33	0.2%	52.2	72	0.2%	113.9	878
Anne Arundel	476,307	580	3.8%	121.8	687	4.0%	144.2	1,267	3.9%	266.0	375
Baltimore City	518,161	5,347	35.2%	1,031.9	6,549	38.0%	1,263.9	11,896	36.7%	2,295.8	43
Baltimore	701,795	1,626	10.7%	231.7	1,761	10.2%	250.9	3,387	10.4%	482.6	207
Calvert	76,619	50	0.3%	65.3	51	0.3%	66.6	101	0.3%	131.8	758
Caroline	27,333	34	0.2%	124.4	35	0.2%	128.1	69	0.2%	252.4	396
Carroll	142,910	64	0.4%	44.8	74	0.4%	51.8	138	0.4%	96.6	1,035
Cecil	86,182	49	0.3%	56.9	63	0.4%	73.1	112	0.3%	130.0	769
Charles	131,050	275	1.8%	209.8	214	1.2%	163.3	489	1.5%	373.1	267
Dorchester	27,280	45	0.3%	165.0	86	0.5%	315.2	131	0.4%	480.2	208
Frederick	206,845	181	1.2%	87.5	159	0.9%	76.9	340	1.0%	164.4	608
Garrett	25,600	6	0.0%	23.4	4	0.0%	15.6	10	0.0%	39.1	2,560
Harford	211,682	198	1.3%	93.5	245	1.4%	115.7	443	1.4%	209.3	477
Howard	262,960	260	1.7%	98.9	268	1.6%	101.9	528	1.6%	200.8	498
Kent	17,439	15	0.1%	86.0	21	0.1%	120.4	36	0.1%	206.4	484
Montgomery	868,044	1,979	13.0%	228.0	2,113	12.2%	243.4	4,092	12.6%	471.4	212
Prince George's	757,629	3,498	23.0%	461.7	3,614	20.9%	477.0	7,112	21.9%	938.7	106
Queen Anne's	41,644	14	0.1%	33.6	36	0.2%	86.4	50	0.2%	120.1	832
Saint Mary's	92,866	60	0.4%	64.6	67	0.4%	72.1	127	0.4%	136.8	731
Somerset	22,676	25	0.2%	110.2	33	0.2%	145.5	58	0.2%	255.8	390
Talbot	32,436	27	0.2%	83.2	32	0.2%	98.7	59	0.2%	181.9	549
Washington	126,707	173	1.1%	136.5	129	0.7%	101.8	302	0.9%	238.3	419
Wicomico	86,374	113	0.7%	130.8	114	0.7%	132.0	227	0.7%	262.8	380
Worcester	45,116	33	0.2%	73.1	44	0.3%	97.5	77	0.2%	170.7	585
Corrections	--	507	3.3%	--	819	4.7%	--	1,326	4.1%	--	--
TOTAL	5,048,872	15,198	100.0%	301.0	17,251	100.0%	341.7	32,449	100.0%	642.7	155

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Population Age 13+: Population greater than or equal to 13 years old, estimate for 7/1/2016.

Adult/Adolescent Living HIV Cases without AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Living HIV Cases with AIDS: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Table 4 – Adult/Adolescent HIV Cases Alive on 3/31/2017, by Jurisdiction of Residence at Diagnosis or Current Residence, Reported through 9/30/2017

Jurisdiction of Residence	Population Age 13+	Adult/Adolescent Total Living HIV Cases								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	63,216	72	0.2%	113.9	878	102	0.3%	161.4	619	41.7%
Anne Arundel	476,307	1,267	3.9%	266.0	375	1,308	4.3%	274.6	364	3.2%
Baltimore City	518,161	11,896	36.7%	2,295.8	43	10,484	34.3%	2,023.3	49	-11.9%
Baltimore	701,795	3,387	10.4%	482.6	207	3,276	10.7%	466.8	214	-3.3%
Calvert	76,619	101	0.3%	131.8	758	132	0.4%	172.3	580	30.7%
Caroline	27,333	69	0.2%	252.4	396	76	0.2%	278.1	359	10.1%
Carroll	142,910	138	0.4%	96.6	1,035	119	0.4%	83.3	1,200	-13.8%
Cecil	86,182	112	0.3%	130.0	769	134	0.4%	155.5	643	19.6%
Charles	131,050	489	1.5%	373.1	267	520	1.7%	396.8	252	6.3%
Dorchester	27,280	131	0.4%	480.2	208	132	0.4%	483.9	206	0.8%
Frederick	206,845	340	1.0%	164.4	608	397	1.3%	191.9	521	16.8%
Garrett	25,600	10	0.0%	39.1	2,560	14	0.0%	54.7	1,828	40.0%
Harford	211,682	443	1.4%	209.3	477	454	1.5%	214.5	466	2.5%
Howard	262,960	528	1.6%	200.8	498	607	2.0%	230.8	433	15.0%
Kent	17,439	36	0.1%	206.4	484	36	0.1%	206.4	484	0.0%
Montgomery	868,044	4,092	12.6%	471.4	212	3,300	10.8%	380.2	263	-19.4%
Prince George's	757,629	7,112	21.9%	938.7	106	7,437	24.3%	981.6	101	4.6%
Queen Anne's	41,644	50	0.2%	120.1	832	49	0.2%	117.7	849	-2.0%
Saint Mary's	92,866	127	0.4%	136.8	731	159	0.5%	171.2	584	25.2%
Somerset	22,676	58	0.2%	255.8	390	81	0.3%	357.2	279	39.7%
Talbot	32,436	59	0.2%	181.9	549	72	0.2%	222.0	450	22.0%
Washington	126,707	302	0.9%	238.3	419	341	1.1%	269.1	371	12.9%
Wicomico	86,374	227	0.7%	262.8	380	241	0.8%	279.0	358	6.2%
Worcester	45,116	77	0.2%	170.7	585	72	0.2%	159.6	626	-6.5%
Corrections	--	1,326	4.1%	--	--	1,040	3.4%	--	--	-21.6%
TOTAL	5,048,872	32,449	100.0%	642.7	155	30,583	100.0%	605.7	165	-5.8%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Population Age 13+: Population age 13 years or older, estimate for 7/1/2016.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Rate: Number of adult/adolescent cases divided by the population age 13 years or older multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

Percent Change: The percent change in number of adult/adolescent total living HIV cases from residence at diagnosis to current residence.

Table 5 – CD4 Test Results during 4/1/2016-3/31/2017 for Adult/Adolescent HIV Cases Alive on 3/31/2017, by Jurisdiction of Current Residence, Reported through 9/30/2017

Jurisdiction of Current Residence	Adult/Adolescent Total Living HIV Cases							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	102	85	83.3%	653	4.7%	10.6%	14.1%	70.6%
Anne Arundel	1,308	852	65.1%	570	11.5%	12.0%	16.3%	60.2%
Baltimore City	10,484	6,918	66.0%	543	12.9%	14.8%	16.6%	55.7%
Baltimore	3,276	2,025	61.8%	580	11.2%	12.9%	16.1%	59.8%
Calvert	132	104	78.8%	691	8.7%	11.5%	12.5%	67.3%
Caroline	76	33	43.4%	648	9.1%	9.1%	12.1%	69.7%
Carroll	119	82	68.9%	622	9.8%	12.2%	19.5%	58.5%
Cecil	134	86	64.2%	599	8.1%	10.5%	17.4%	64.0%
Charles	520	365	70.2%	566	12.6%	13.4%	17.8%	56.2%
Dorchester	132	97	73.5%	550	9.3%	17.5%	16.5%	56.7%
Frederick	397	270	68.0%	592	5.2%	11.5%	15.2%	68.1%
Garrett	14	12	85.7%	673	0.0%	0.0%	33.3%	66.7%
Harford	454	290	63.9%	550	12.1%	13.8%	16.9%	57.2%
Howard	607	406	66.9%	576	12.8%	11.8%	16.0%	59.4%
Kent	36	25	69.4%	603	0.0%	16.0%	24.0%	60.0%
Montgomery	3,300	2,200	66.7%	563	7.8%	13.3%	21.2%	57.8%
Prince George's	7,437	5,036	67.7%	557	10.3%	13.4%	18.5%	57.8%
Queen Anne's	49	38	77.6%	639	7.9%	15.8%	18.4%	57.9%
Saint Mary's	159	107	67.3%	548	11.2%	19.6%	16.8%	52.3%
Somerset	81	60	74.1%	641	15.0%	3.3%	16.7%	65.0%
Talbot	72	51	70.8%	406	15.7%	21.6%	25.5%	37.3%
Washington	341	243	71.3%	642	8.2%	8.6%	16.0%	67.1%
Wicomico	241	175	72.6%	491	14.9%	17.7%	18.9%	48.6%
Worcester	72	59	81.9%	582	6.8%	13.6%	15.3%	64.4%
Corrections	1,040	705	67.8%	493	19.4%	15.3%	15.5%	49.8%
TOTAL	30,583	20,324	66.5%	558	11.4%	13.7%	17.5%	57.4%

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Median Count: Median CD4 count (cells per microliter), among adult/adolescent total living HIV cases, of the most recent CD4 test result measured in the specified year.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent CD4 test result.

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of adult/adolescent living HIV cases with a recent CD4 test result distributed by the CD4 count results (cells per microliter).

Table 6 – Viral Load Test Results during 4/1/2016-3/31/2017 for Adult/Adolescent HIV Cases Alive on 3/31/2017, by Jurisdiction of Current Residence, Reported through 9/30/2017

JURISDICTION OF CURRENT RESIDENCE	ADULT/ADOLESCENT TOTAL LIVING HIV CASES				
	No.	Recent Viral Load Test Result			
		No. with Test	% with Test	% Suppressed	Median Unsuppressed
Allegany	102	83	81.4%	86.7%	7,454
Anne Arundel	1,308	815	62.3%	78.4%	11,468
Baltimore City	10,484	6,365	60.7%	74.5%	8,725
Baltimore	3,276	1,905	58.2%	79.5%	12,791
Calvert	132	106	80.3%	86.8%	24,081
Caroline	76	36	47.4%	83.3%	2,377
Carroll	119	75	63.0%	86.7%	15,592
Cecil	134	83	61.9%	83.1%	7,698
Charles	520	374	71.9%	80.2%	13,568
Dorchester	132	102	77.3%	87.3%	14,889
Frederick	397	266	67.0%	89.5%	11,827
Garrett	14	11	78.6%	90.9%	444,863
Harford	454	275	60.6%	82.9%	12,993
Howard	607	391	64.4%	79.8%	11,100
Kent	36	26	72.2%	100.0%	--
Montgomery	3,300	2,205	66.8%	88.4%	7,720
Prince George's	7,437	5,072	68.2%	81.9%	13,539
Queen Anne's	49	37	75.5%	78.4%	710
Saint Mary's	159	104	65.4%	82.7%	43,060
Somerset	81	59	72.8%	91.5%	2,670
Talbot	72	52	72.2%	86.5%	8,542
Washington	341	243	71.3%	85.2%	6,759
Wicomico	241	168	69.7%	78.0%	14,390
Worcester	72	57	79.2%	93.0%	24,360
Corrections	1,040	672	64.6%	67.6%	9,823
TOTAL	30,583	19,582	64.0%	79.6%	10,650

Adult/Adolescent Total Living HIV Cases: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31st of the specified year.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since 1/1/2009.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Percent Suppressed: Percent of adult/adolescent total living HIV cases with the most recent viral load measured in the specified year of less than 200 copies per milliliter.

With Test: Number and percent of adult/adolescent total living HIV cases with a recent viral load test result.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among adult/adolescent total living HIV cases with the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.